



RE: Columbia Model - Columbia Model

MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017

Site Information:

Customer Info: Florida Homes Project Name: . Model: .

Lot/Block: .

Subdivision: .

Address: ., .

City: Columbia County State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name: License #:

Address:

City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special **Loading Conditions):**

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.5

Wind Code: ASCE 7-16 Wind Speed: 130 mph Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 31 individual, Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

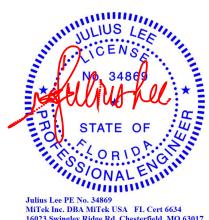
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1 2 3 4 5 6 7 8 9 1 1 1 2 3 4 5 6 7 8 9 1 1 1 2 3 4 5 6 7 8 9 2 1	T28890167 T28890168 T28890170 T28890170 T28890171 T28890172 T28890173 T28890175 T28890176 T28890177 T28890177 T28890179 T28890180 T28890181 T28890181 T28890183 T28890184 T28890186 T28890186 T28890187	A01AGIR A01GIR A02 A02A A03A A04 A04A A05 A05A A06 A06A A07 A07A A08 A08A A09 A10 B01GE B02 B03	9/29/22 9/29/22 9/29/22 9/29/22 9/29/22 9/29/22 9/29/22 9/29/22 9/29/22 9/29/22 9/29/22 9/29/22 9/29/22 9/29/22 9/29/22 9/29/22	23 24 25 26 27 28 29 30	T28890189 T28890190 T28890191 T28890192 T28890193 T28890194 T28890195 T28890196 T28890197	B05 C01GE C02 C03GIR CJ01 J1 J2 J3 J4	9/29/22 9/29/22 9/29/22 9/29/22 9/29/22 9/29/22 9/29/22 9/29/22
22	T28890188	B04	9/29/22				

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mayo Truss Company, Inc..

Truss Design Engineer's Name: Lee, Julius

My license renewal date for the state of Florida is February 28, 2023.

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



16023 Swingley Ridge Rd. Chesterfield, MO 63017

September 29,2022

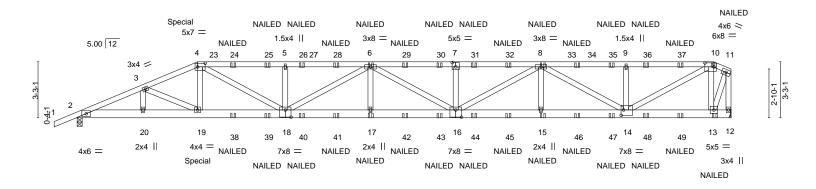
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	COLUMBIA_MODEL	A01AGIR	Hip G	Girder	1		2				
							– J	lob Reference (optional)			
	Mayo Truss Company, Inc.,	Mayo, FL	- 32066,			8.5	30 s Aug 1	1 2022 MiTek Industries, In	c. Thu Sep 29 08:	30:31 2022 Page	e 1
					ID:I6mhBsqQI4K	(6KneDQ	WuCZCym	cPk-bprLcEXkAQ5J7_WzL	.3O8WbgyasKQQC	QW5ev?qohyYqE	6
	-1-4-0 3-9-14	7-0-0	12-1-3	17-0-9	22-0-0	_ 2	26-11-7	31-10-13	37-0-0	38-0-Q	
	1-4-0 3-9-14	3-2-2	5-1-3	4-11-7	4-11-7	Ι .	4-11-7	4-11-7	5-1-3	1-0-0	

Qtv

Plv

Columbia Model

Scale = 1:66.9



	3-9-14	7-0-0	12-1-3	17-0-9	22-0-0	26-11-7	31-10-13	37-0-0	38-0- Q
	3-9-14	3-2-2	5-1-3	4-11-7	4-11-7	4-11-7	4-11-7	5-1-3	ነ-0-0
Plate Offs	sets (X,Y)	[4:0-5-4,0-2-8], [7:0	0-2-8,0-3-0], [10:0-6-4	1,0-2-12], [14:0-1-12,0)-3-12], [16:0-4-0,0-5-	0], [18:0-4-0,0-5-0]			
LOADING	G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/de	efl L/d	PLATES	GRIP
TCLL	20.0	Plate Grip D	OL 1.25	TC 0.80	Vert(LL)	-0.41 16-17 >99	99 240	MT20	244/190
TCDL	10.0	Lumber DO	L 1.25	BC 0.85	Vert(CT)	-0.83 16-17 >54	46 180		
BCLL	0.0 *	Rep Stress	Incr NO	WB 0.62	Horz(CT)	0.14 12 r	n/a n/a		
BCDL	10.0	Code FBC2	2020/TPI2014	Matrix-MS				Weight: 471 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

Job

TOP CHORD 2x4 SP No 2 *Except*

4-7,7-10: 2x4 SP No.1

Truss

Truss Type

BOT CHORD 2x6 SP No.2 *Except*

16-18: 2x6 SP SS

WEBS 2x4 SP No.2

REACTIONS. (size) 2=0-3-8, 12=Mechanical

Max Horz 2=89(LC 24)

Max Grav 2=3152(LC 1), 12=3357(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

 $2-3 = -7504/0, \ 3-4 = -7415/0, \ 4-5 = -9719/0, \ 5-6 = -9719/0, \ 6-7 = -10713/0, \ 7-8 = -10713/0$ TOP CHORD

8-9=-5878/0, 9-10=-5878/0, 10-11=-1310/7, 11-12=-3375/0 **BOT CHORD** $2-20=0/6902,\ 19-20=0/6902,\ 18-19=0/6863,\ 17-18=0/10995,\ 16-17=0/10995,$

15-16=0/9096, 14-15=0/9096, 13-14=0/1078

WEBS 3-19=-252/151, 4-19=0/761, 4-18=-62/3318, 5-18=-621/133, 6-18=-1507/0, 6-17=0/433,

6-16=-326/0, 7-16=-497/99, 8-16=0/1869, 8-15=0/434, 8-14=-3723/0, 9-14=-631/132,

10-14=0/5513, 10-13=-2626/84, 11-13=0/3089

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Refer to girder(s) for truss to truss connections.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 231 lb down and 127 lb up at 7-0-0 on top chord, and 361 lb down at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the

Structural wood sheathing directly applied or 3-3-3 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

to all applicable truss designs in this job.

"Special" indicates special hanger(s) or other connection device(s) required at location(s)shown. The design/selection of such special connection device(s) is the responsibility of others. This applies

> Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

> > September 29,2022

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSVTP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Columbia Model
COLUMBIA MODEL	A01AGIR	Hip Girder	1		T28890167
OOLOWBIA_WOBEL	AUTAOIN	Trip Girder	'	2	Job Reference (optional)

Mayo Truss Company, Inc.,

Mayo, FL - 32066,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Sep 29 08:30:32 2022 Page 2 ID:I6mhBsqQI4K6KneDQWuCZCymcPk-3?PjqZYMxkDAI759vmvN3pD7KGgf9tlFtZIOK8yYqE5

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-4=-60, 4-10=-60, 10-11=-60, 2-12=-20

Concentrated Loads (lb)

Vert: 4=-184(B) 10=-132(B) 19=-361(B) 6=-126(B) 17=-64(B) 15=-64(B) 8=-126(B) 13=-66(B) 24=-126(B) 25=-126(B) 26=-126(B) 28=-126(B) 29=-126(B) 30=-126(B) 31=-126(B) 31=-126(B) 32=-126(B) 35=-126(B) 36=-126(B) 37=-126(B) 38=-64(B) 39=-64(B) 40=-64(B) 41=-64(B) 42=-64(B) 43=-64(B) 44=-64(B) 41=-64(B) 42=-64(B) 43=-64(B) 43=-64 45=-64(B) 46=-64(B) 47=-64(B) 48=-64(B) 49=-64(B)



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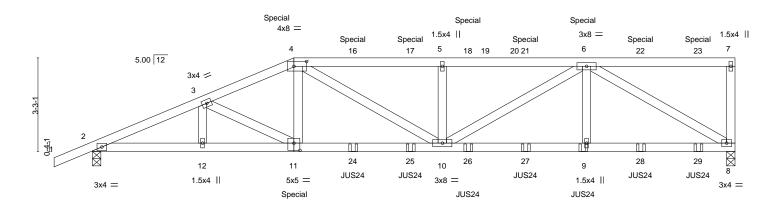
September 29,2022





JOD	ITUSS	rruss rype	Qty	Ply	Columbia Model		
						T28	3890168
COLUMBIA_MODEL	A01GIR	Half Hip Girder	1	2			
				Z	Job Reference (c	ptional)	
Mayo Truss Company, Inc.,	Mayo, FL - 32066,		8.	530 s Aug	11 2022 MiTek In	dustries, Inc. Thu Sep 29 08:30:42 2022 Pag	ge 1
	-	I	D:I6mhBsqQI4I	K6KneDQV	VuCZCymcPk-mw	0Vw_geaoUlygr4Ut4jTvdwllAiVSijA7AvgYyY	qDx
1-4-0 3-	-9-14 7-0-0	12-1-15	1	17-2-	1	22-4-0	
1-4-0 3-	-9-14 3-2-2	5-1-15		5-0-3	3	5-1-15	

Scale = 1:40.0



	3-9-14	7-0-0	12-1-15	1	17-2-1 _I	22-4-0	I
	3-9-14	3-2-2	5-1-15		5-0-3	5-1-15	
Plate Offsets (X,Y)	[4:0-5-4,0-2-0], [11:0)-2-8,0-3-0]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/defl L/d	PLATES GRIP	
TCLL 20.0	Plate Grip DO	DL 1.25	TC 0.42	Vert(LL)	-0.09 10-11 >999 240	MT20 244/190	ı
TCDL 10.0	Lumber DOL	1.25	BC 0.55	Vert(CT)	-0.19 10-11 >999 180		
BCLL 0.0 *	Rep Stress Ir	ncr NO	WB 0.40	Horz(CT	r) 0.06 8 n/a n/a		
BCDL 10.0	Code FBC20	20/TPI2014	Matrix-MS			Weight: 233 lb FT = 2	20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.2

REACTIONS. (size) 8=0-3-8, 2=0-3-8 Max Horz 2=96(LC 24)

Max Grav 8=1960(LC 1), 2=1769(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-3868/0, 3-4=-3643/0, 4-5=-3829/0, 5-6=-3829/0, 7-8=-269/55 BOT CHORD 2-12=0/3529, 11-12=0/3529, 10-11=0/3345, 9-10=0/2720, 8-9=0/2720

WEBS 3-11=-296/78, 4-11=0/628, 4-10=-44/617, 5-10=-652/136, 6-10=0/1288, 6-9=0/426,

6-8=-3088/0

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Use MiTek JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 9-0-12 from the left end to 21-0-12 to connect truss(es) to front face of bottom chord.
- 10) Fill all nail holes where hanger is in contact with lumber.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 231 lb down and 124 lb up at 7-0-0, 126 lb down and 60 lb up at 9-0-12, 126 lb down and 60 lb up at 11-0-12, 126 lb down and 60 lb up at 13-0-12, 126 lb down and 60 lb up at 15-0-12, 126 lb down and 60 lb up at 15-0-12, and 126 lb down and 60 lb up at 19-0-12, and 126 lb down and 60 lb up at 21-0-12 on top chord, and 361 lb down at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



Structural wood sheathing directly applied or 5-10-6 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

September 29,2022

COADICASE(S)geStandard

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd

Job	Truss	Truss Type	Qty	Ply	Columbia Model
COLUMBIA MODEL	A01GIR	Half Hip Girder	,	_	T28890168
COLUNBIA_IVIODEL	AUIGIK	Hall Hip Glidel		2	Job Reference (optional)

Mayo Truss Company, Inc.,

Mayo, FL - 32066,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Sep 29 08:30:42 2022 Page 2 ID:I6mhBsqQI4K6KneDQWuCZCymcPk-mw0Vw_geaoUlygr4Ut4jTvdwlIAiVSijA7AvgYyYqDx

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-60, 8-13=-20

Concentrated Loads (lb)

Vert: 4=-184(F) 11=-361(F) 9=-64(F) 6=-126(F) 16=-126(F) 17=-126(F) 18=-126(F) 21=-126(F) 22=-126(F) 23=-126(F) 24=-64(F) 25=-64(F) 25=-64(F) 27=-64(F) 27=-28=-64(F) 29=-64(F)



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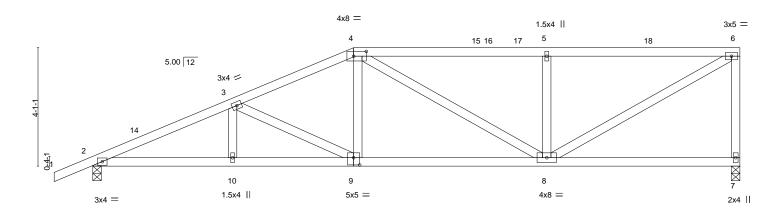
September 29,2022





Job		Truss	Truss Type		Qty	Ply	Columbia Model			
									T28890169	
COLUMBIA_MODE	EL	A02	Half Hip		1	1				
							Job Reference (op	tional)		
Mayo Truss Comp	pany, Inc.,	Mayo, FL - 32066,	·		8.	530 s Aug	11 2022 MiTek Indu	ustries, Inc. Thu Sep 29 08:30:4	14 2022 Page 1	_
				ID:I6mhB	sqQl4K6K	(neDQWuC	ZCymcPk-iJ7GLgh	nu6QkTBz?TcH7BYKjG46rqzOrt	0dRf0kRyYqDv	
-1-4-0		4-9-14	9-0-0	15	-8-0			22-4-0		
1-4-0		1-0-11	1-2-2	6	Ω.Λ		1	6.8.0		

Scale = 1:39.8



	<u> </u>	4-9-14 4-9-14		9-0-0 4-2-2	+	15-8-0 6-8-0			+		22-4-0 6-8-0	
Plate Offse	ets (X,Y)	[4:0-5-4,0-2-0], [9:0-2-8,0-		T-Z-Z		0-0-0	,				0-0-0	
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.	.43	Vert(LL)	-0.09	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC 0.	.57	Vert(CT)	-0.20	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.	.29	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TF	PI2014	Matrix-A	s						Weight: 116 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2 WFBS 2x4 SP No.2

(size) 7=0-3-8, 2=0-3-8 Max Horz 2=121(LC 11)

Max Uplift 7=-8(LC 9), 2=-32(LC 12) Max Grav 7=885(LC 1), 2=970(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1848/56, 3-4=-1423/93, 4-5=-1164/85, 5-6=-1164/85, 6-7=-826/81

BOT CHORD 2-10=-170/1665, 9-10=-170/1665, 8-9=-132/1271 WFBS 3-9=-438/42, 4-9=0/328, 5-8=-445/104, 6-8=-63/1304

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 22-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 7 and 32 lb uplift at
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

September 29,2022





	lob		Truss	Truss Type	Q	ty PI	ly Colur	nbia Mod	del		
											T28890170
(COLUMBIA_	MODEL	A02A	Hip	1		1				
							Job R	eference	(optional)		
	Mayo Truss Company, Inc., Mayo, FL - 32066,				8.530	0 s Aug 11 202	22 MiTek	Industries, Inc. Thu Sep 29 (08:30:45 2022	Page 1	
	-		-		ID:I6mhBsq	QI4K6Kne	eDQWuCZCym	ncPk-BVh	neY0iWtjsKp7afA?eQ5YFMnV	V6IiiQ9s5OaG	StyYqDu
	-1-4-0	4-9-14	9-0-0	15-6-14	22-0-0		28-5-2		35-0-0	38-0-0	1

6-5-2

6-5-2

6-6-14

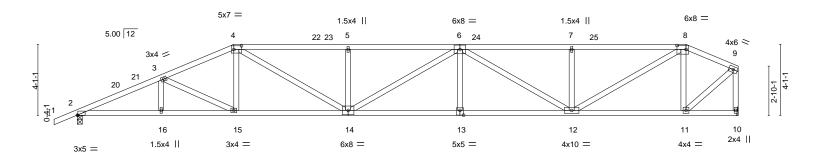
Scale = 1:66.2

3-0-0

6-6-14

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.



	4-9-1 4-9-1			-6-14 6-14	22-0-0 6-5-2	28-5-2 6-5-2	35-0-0 6-6-14	38-0-0 3-0-0
Plate Offse	ets (X,Y)	[2:0-0-6,Edge], [4:0-5-4,0)-2-8], [8:0-6-4,0)-2-12], [13:0-2	-8,0-3-4]			
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/defl	L/d PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0	0.75 Vert(LL)	-0.31 14 >999	240 MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC 0	0.88 Vert(CT)	-0.69 13-14 >655	180	
BCLL	0.0 *	Rep Stress Incr	YES	WB 0	0.85 Horz(CT)	0.16 10 n/a	n/a	
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-A	AS		Weight: 203 I	lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* **BOT CHORD** 13-14: 2x4 SP No.1

4-9-14

WFBS 2x4 SP No.2

REACTIONS. (size) 2=0-3-8, 10=Mechanical

Max Horz 2=105(LC 11) Max Uplift 2=-33(LC 12)

Max Grav 2=1596(LC 1), 10=1513(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3412/112, 3-4=-3041/111, 4-5=-3717/155, 5-6=-3717/155, 6-7=-2909/106,

7-8=-2909/106, 8-9=-1245/66, 9-10=-1495/68

BOT CHORD 2-16=-169/3105, 15-16=-169/3105, 14-15=-111/2777, 13-14=-116/3670, 12-13=-116/3670,

11-12=-57/1095

WEBS 3-15=-376/62, 4-15=0/387, 4-14=-47/1174, 5-14=-456/111, 6-12=-893/22,

7-12=-457/111, 8-12=-55/2105, 8-11=-861/100, 9-11=-55/1475

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 2-5-10, Interior(1) 2-5-10 to 9-0-0, Exterior(2R) 9-0-0 to 14-4-8, Interior(1) 14-4-8 to 35-0-0, Exterior(2E) 35-0-0 to 37-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 2.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

September 29,2022



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

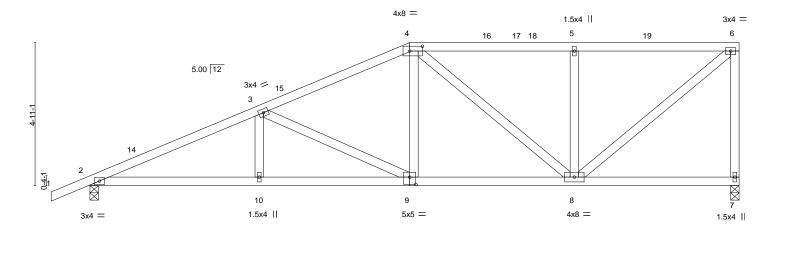
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Columbia Mod	el	
							T28890171
COLUMBIA_MODEL	A03	Half Hip	1	1			
					Job Reference	(optional)	
Mayo Truss Company, Inc.,	Mayo, FL - 32066,		8.	.530 s Aug	11 2022 MiTek	Industries, Inc. Thu Sep 29 08:30:46 2022	Page 1
	• 1		ID:I6mhBsqQI4h	K6KneDQW	VuCZCymcPk-fh	F0mMj8e1_BRH9rji9fdlodBvYpRHUJ5l87p	KyYqDt
-1-4-0	5-9-14	11-0-0	·	16-8-0	,	22-4-0	1
1-4-0	5-9-14	5-2-2		5-8-0		5-8-0	7

Scale = 1:39.6



	5-9-14	5-2-2	5-8-0		5-8-0
Plate Offsets (X,Y)	[4:0-5-4,0-2-0], [9:0-2-8,0-3-0]				
LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.25	CSI. TC 0.33	DEFL. in (loc) Vert(LL) -0.06 10	I/defl L/d >999 240	PLATES GRIP MT20 244/190
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.25 Rep Stress Incr YES	BC 0.48 WB 0.35	Vert(CT) -0.13 9-10 Horz(CT) 0.04 7	>999 180 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-AS			Weight: 121 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

16-8-0

11-0-0

LUMBER-

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2 WFBS

2x4 SP No.2

REACTIONS. (size) 7=0-3-8, 2=0-3-8

Max Horz 2=147(LC 11)

Max Uplift 7=-8(LC 9), 2=-32(LC 12) Max Grav 7=885(LC 1), 2=970(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1790/57, 3-4=-1233/94, 4-5=-846/89, 5-6=-846/89, 6-7=-835/83

BOT CHORD 2-10=-180/1616. 9-10=-180/1616. 8-9=-134/1079

WFBS 3-10=0/251, 3-9=-595/51, 4-9=0/370, 4-8=-301/61, 5-8=-382/89, 6-8=-65/1077

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 11-0-0, Exterior(2R) 11-0-0 to 15-2-15, Interior(1) 15-2-15 to 22-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 7 and 32 lb uplift at
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

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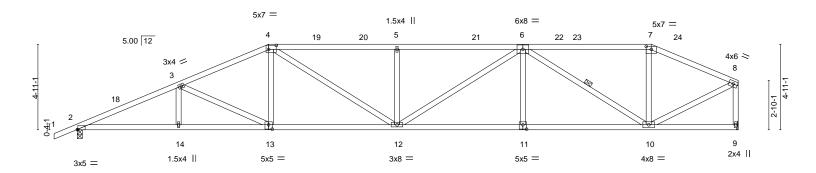
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Columbia Model		
							T28890172
COLUMBIA_MODEL	A03A	Hip	1	1			
					Job Reference (optional)		
Mayo Truss Company, Inc.,	Mayo, FL - 32066,			8.530 s Aug	11 2022 MiTek Industries, Inc. Thu	Sep 29 08:30:48 2022	Page 1
	• • • • • • • • • • • • • • • • • • • •		ID:I6mhBsqQl4k	6KneDQWi	ICZCymcPk-b4NmB2IOAeEugbJEr	7B7iAtqEj8uv9XbY2dEt	CyYqDr
₋ 1-4-0 ₁ 5-9-14	11-0-0	18-4-9	25-7-7		33-0-0	38-0-0	 I
1-4-0 5-9-14	5-2-2	7_//_Q	7-2-13		7-1-0	5-0-0	

Scale = 1:66.2



	5-9) -14	11-0-0	18-4-9	25-7-7	33-0-0	38-0-0
	5-9	9-14	5-2-2	7-4-9	7-2-13	7-4-9	5-0-0
Plate Offs	ets (X,Y)	[2:0-0-6,Edge], [4:0	-5-4,0-2-12], [7:0	-3-8,0-2-1], [11:0-2-8,0-3-0], [3:0-2-8,0-3-0]		
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc)	l/defl L/d PI	LATES GRIP
TCLL	20.0	Plate Grip D	OL 1.25	TC 0.93	Vert(LL) -0.24 12	>999 240 M	T20 244/190
TCDL	10.0	Lumber DOL	1.25	BC 0.88	Vert(CT) -0.53 12-13	>850 180	
BCLL	0.0 *	Rep Stress I	ncr YES	WB 0.51	Horz(CT) 0.15 9	n/a n/a	
BCDL	10.0	Code FBC2	020/TPI2014	Matrix-AS	, ,	l w	/eight: 203 lb FT = 20%
							•

BRACING-

TOP CHORD

BOT CHORD

WFBS

LUMBER-

REACTIONS.

WFBS

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2

2x4 SP No.2

(size) 2=0-3-8, 9=Mechanical

Max Horz 2=119(LC 11) Max Uplift 2=-33(LC 12)

Max Grav 2=1596(LC 1), 9=1513(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3384/111, 3-4=-2849/132, 4-5=-3186/141, 5-6=-3186/141, 6-7=-1475/97,

7-8=-1636/84 8-9=-1476/83

BOT CHORD 2-14=-160/3072, 13-14=-160/3072, 12-13=-116/2574, 11-12=-100/2705, 10-11=-100/2705 $3-13=-552/49,\ 4-13=0/387,\ 4-12=-4/850,\ 5-12=-519/122,\ 6-12=-19/594,\ 6-10=-1490/42,$ **WEBS**

7-10=0/324, 8-10=-51/1625

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 2-5-10, Interior(1) 2-5-10 to 11-0-0, Exterior(2R) 11-0-0 to 16-4-8, Interior(1) 16-4-8 to 33-0-0, Exterior(2E) 33-0-0 to 37-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 2.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

6-10

Rigid ceiling directly applied.

1 Row at midpt

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September 29,2022



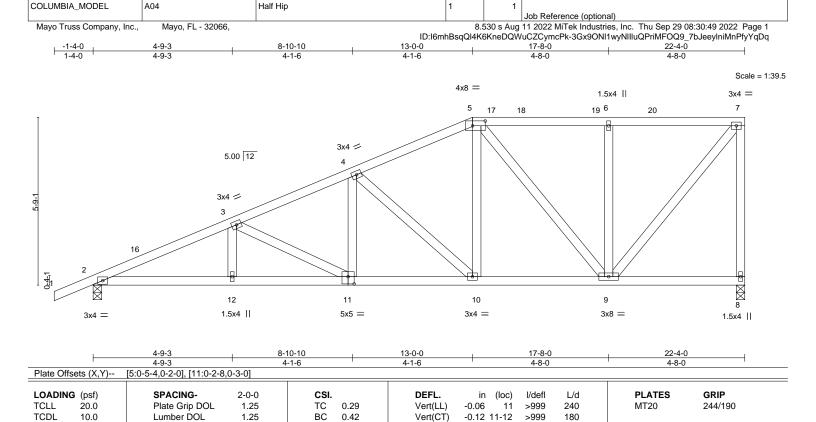
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available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.04

8

n/a

Rigid ceiling directly applied.

n/a

Structural wood sheathing directly applied, except end verticals.

Qty

Ply

Columbia Model

T28890173

LUMBER-

BCLL

BCDL

WFBS

Job

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2

0.0

10.0

2x4 SP No.2

REACTIONS. (size) 8=0-3-8, 2=0-3-8

Max Horz 2=172(LC 11)

Truss

Truss Type

Max Uplift 8=-7(LC 9), 2=-31(LC 12) Max Grav 8=885(LC 1), 2=970(LC 1)

Rep Stress Incr

Code FBC2020/TPI2014

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1852/46, 3-4=-1442/79, 4-5=-1002/94, 5-6=-611/95, 6-7=-611/95, 7-8=-841/88

YES

BOT CHORD 2-12=-186/1670, 11-12=-186/1670, 10-11=-172/1278, 9-10=-124/891

WFBS 3-11=-428/17, 4-11=0/290, 4-10=-530/63, 5-10=0/449, 5-9=-431/54, 6-9=-307/80,

7-9=-73/941

NOTES-

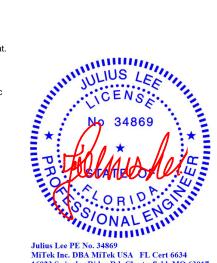
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 13-0-0, Exterior(2R) 13-0-0 to 17-2-15, Interior(1) 17-2-15 to 22-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB

Matrix-AS

0.37

- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 8 and 31 lb uplift at
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Weight: 135 lb

FT = 20%

16023 Swingley Ridge Rd. Chesterfield, MO 63017

September 29,2022



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Job	Truss	Truss Type	Qty	Ply	Columbia Model	ı		
					T28890174	ı		
COLUMBIA_MODEL	A04A	Hip	1	1		ı		
					Job Reference (optional)	ı		
Mayo Truss Company, Inc.,	Mayo, FL - 32066,		8.	530 s Aug	11 2022 MiTek Industries, Inc. Thu Sep 29 08:30:51 2022 Page 1			
		ID:I6mhBsqQI4K6KneDQWuCZCymcPk-?f2vp3nHSZdTX22pWGlqKpVNnwGU6Ur2E0ruUXyYqDo						

26-3-0

4-9-0

31-0-0

4-9-0

37-8-8

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

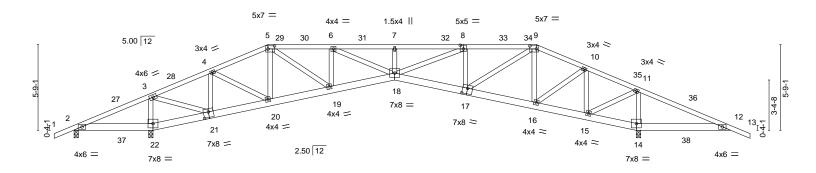
44-0-0

6-3-8

21-6-0

4-3-0

Scale = 1:77.3



5-3-8 5-3-8		13-0-0 3-10-4	17-3-0 4-3-0	21-6-0 4-3-0	26-3-0 4-9-0		31-0-0 4-9-0		34-4-4 3-4-4	37-8-8 3-4-4		44-0-0 6-0-0	——
Plate Offsets (X,Y)	[5:0-5-4,0-2-8], [8:0-2-8,0)-3-0], [9:0-5-4,	0-2-8], [17:0-	4-0,0-4-8], [2	1:0-4-0,0-4-8]								
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2020/T	2-0-0 1.25 1.25 YES PI2014	CSI. TC BC WB Matri	0.72 0.44 0.53 x-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.23 -0.45 0.20	(loc) 18 18 14	l/defl >999 >862 n/a	L/d 240 180 n/a		PLATES MT20 Weight: 2		GRIP 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD **BOT CHORD**

REACTIONS.

WFBS

2x4 SP No 2 2x6 SP No 2

2x4 SP No 2

(size) 2=0-3-8, 22=0-3-8, 14=0-3-8

Max Horz 2=103(LC 11)

Max Uplift 2=-765(LC 22), 14=-44(LC 12) Max Grav 22=2601(LC 21), 14=1785(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=0/2533, 3-4=0/337, 4-5=-1007/53, 5-6=-2035/13, 6-7=-3438/0, 7-8=-3438/0,

13-0-0

3-10-4

4-3-0

3-10-4

8-9=-2151/0, 9-10=-1229/0, 10-11=-640/0, 11-12=-544/833

BOT CHORD 2-22=-2287/0, 21-22=-2490/0, 20-21=-281/52, 19-20=0/888, 18-19=0/2079, 17-18=0/2265, 16-17=0/1148, 15-16=0/593, 14-15=-826/599, 12-14=-708/562

3-22=-1920/27, 3-21=0/2362, 4-21=-1207/9, 4-20=0/1163, 5-20=-662/13, 5-19=0/1418,

 $6-19 = -925/9,\ 6-18 = 0/1549,\ 7-18 = -274/69,\ 8-18 = 0/1333,\ 8-17 = -787/48,\ 9-17 = 0/1230,$

9-16=-497/155, 10-16=-143/806, 10-15=-896/168, 11-15=-131/1382, 11-14=-1424/209

NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=44ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 3-0-13, Interior(1) 3-0-13 to 13-0-0, Exterior(2R) 13-0-0 to 19-2-11, Interior(1) 19-2-11 to 31-0-0, Exterior(2R) 31-0-0 to 37-2-11, Interior(1) 37-2-11 to 45-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 765 lb uplift at joint 2 and 44 lb uplift at ioint 14.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

September 29,2022

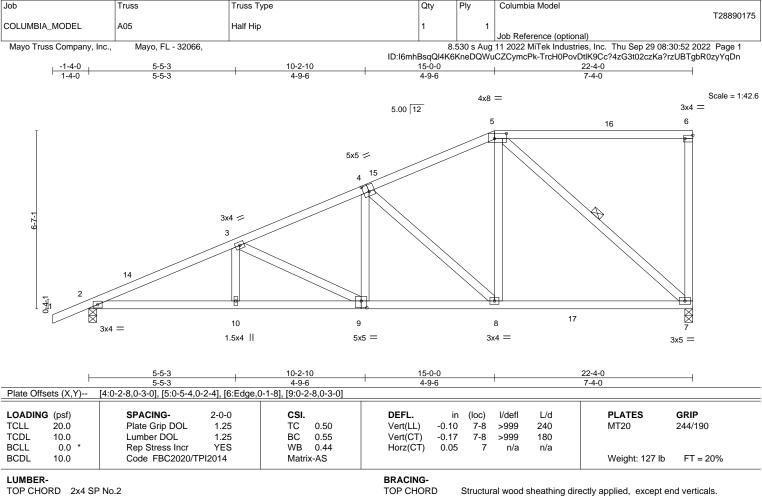


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BOT CHORD

WFBS

Rigid ceiling directly applied.

1 Row at midpt

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2 2x4 SP No 2 WFBS

REACTIONS. (size) 7=0-3-8, 2=0-3-8

Max Horz 2=197(LC 11) Max Uplift 7=-7(LC 9), 2=-30(LC 12)

Max Grav 7=1005(LC 17), 2=1059(LC 17)

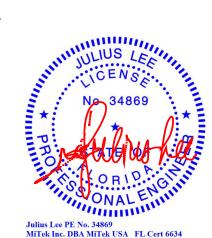
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2021/48. 3-4=-1442/73. 4-5=-897/94

BOT CHORD 2-10=-195/1893, 9-10=-195/1893, 8-9=-162/1298, 7-8=-120/856 $3-9=-639/39,\ 4-9=0/406,\ 4-8=-615/55,\ 5-8=0/697,\ 5-7=-1078/94$ WFBS

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 15-0-0, Exterior(2R) 15-0-0 to 19-2-15, Interior(1) 19-2-15 to 22-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 7 and 30 lb uplift at
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

September 29,2022



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Job	Truss	Truss Type	Qty	Ply	Columbia Model	
					T288901	'6
COLUMBIA_MODEL	A05A	Hip	1	1		
					Job Reference (optional)	
Mayo Truss Company, Inc.,	Mayo, FL - 32066,		8.9	530 s Aug	11 2022 MiTek Industries, Inc. Thu Sep 29 08:30:54 2022 Page 1	
		ID:I6mhBsqO	I4K6KneD	OWuCZČ\	vmcPk-OEk2R5n9II I22OWmOBOIXvR7wO8Hf.IsSI lw 4Y5svYaDI	

25-3-0

3-9-0

29-0-0

3-9-0

33-4-4

37-8-8

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

44-0-0

6-3-8

21-6-0

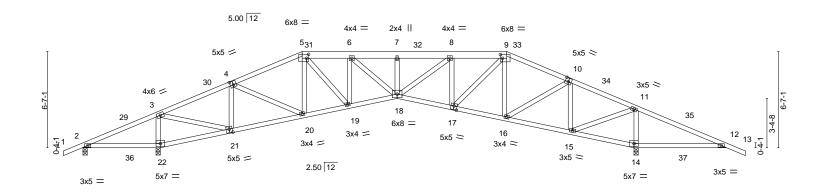
3-3-0

18-3-0

3-3-0

Scale = 1:78.8

45-4-0



	5-1-	·12 5-3-8 10-1-12	15-0-0	₁ 18-3-0 ₁	21-6-0	25-3-0	29-0-0	33-4-4	1	37-8-8	38 ₁ 0-0	44-0-0	
	5-1-	12 0-1 [!] -12 4-10-4	4-10-4	3-3-0	3-3-0	3-9-0	3-9-0	4-4-4	1	4-4-4	0-3-8	6-0-0	1
Plate Offse	ets (X,Y)	[4:0-2-8,0-3-0], [5:0-1-12,0)-3-4], [9:0-1-12,	,0-3-0], [10:0-2-	-8,0-3-0], [17:0-2-8,0-3-0],	[21:0-2-8,0-3	-0]					
	, ,											_	
LOADING	(pst)	SPACING-	2-0-0	CSI.		DEFL.	in (loc	:) I/defl	L/d		PLATE	S	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.6	33	Vert(LL)	-0.14 1	8 >999	240		MT20		244/190
TCDL	10.0	Lumber DOL	1.25	BC 0.4	18	Vert(CT)	-0.28 17-1	3 >999	180				
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.4	18	Horz(CT)	0.14 1	4 n/a	n/a				
BCDL	10.0	Code FBC2020/TF	PI2014	Matrix-AS	6						Weight	247 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 *Except* 5-9: 2x6 SP No.2

BOT CHORD 2x4 SP No.2 **WEBS** 2x4 SP No.2

REACTIONS.

(size) 2=0-3-8, 22=0-3-8, 14=0-3-8

10-1-12

4-10-4

Max Horz 2=-117(LC 10)

Max Uplift 2=-366(LC 22), 22=-3(LC 12), 14=-43(LC 12)

Max Grav 22=2119(LC 1), 14=1850(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=0/1428. 3-4=-834/68. 4-5=-1613/49. 5-6=-2096/31. 6-7=-2775/0. 7-8=-2775/0.

8-9=-2039/0, 9-10=-1497/0, 10-11=-869/0, 11-12=-533/816 BOT CHORD $2 - 22 = -1251/0, \ 21 - 22 = -1408/0, \ 20 - 21 = 0/782, \ 19 - 20 = 0/1479, \ 18 - 19 = 0/2145, \ 17 - 18 = 0/2113, \ 10 - 10 = 0/2145, \ 10 -$

16-17=0/1373, 15-16=0/804, 14-15=-795/576, 12-14=-680/540

WEBS $3-22=-1699/62,\ 3-21=0/2122,\ 4-21=-871/14,\ 4-20=0/776,\ 5-20=-364/24,\ 5-19=0/986,\ 3-21=0/2122,\ 4-21=-871/14,\ 4-20=0/776,\ 5-20=-364/24,\ 5-19=0/986,\ 5-20=-364/24,\ 5-19=0/986,\ 5-20=-364/24,\ 5-19=0/986,\ 5-20=-364/24,\ 5-19=0/986,\ 5-20=-364/24,\ 5-19=0/986,\ 5-20=-364/24,\ 5-19=0/986,\ 5-20=-364/24,\ 5-19=0/986,\ 5-20=-364/24,\ 5-19=0/986,\ 5-20=-364/24,\ 5-19=0/986,\ 5-20=-364/24,\ 5-19=0/986,\ 5-20=-364/24,\ 5-19=0/986,\ 5-20=-364/24,\ 5-19=0/986,\ 5-20=-364/24,\ 5-19=0/986,\ 5-20=-364/24,\ 5-19=0/986,\ 5-20=-364/24,\ 5-19=0/986,\ 5-20=-364/24,\ 5-19=0/986,\ 5-20=-364/24,$

6-19=-818/0, 6-18=0/903, 8-18=0/893, 8-17=-818/50, 9-17=-14/1019, 9-16=-387/136,

10-16=-131/696, 10-15=-812/165, 11-15=-147/1604, 11-14=-1549/247

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=44ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 3-0-13, Interior(1) 3-0-13 to 15-0-0, Exterior(2R) 15-0-0 to 21-6-0, Interior(1) 21-6-0 to 29-0-0, Exterior(2R) 29-0-0 to 35-2-11, Interior(1) 35-2-11 to 45-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 366 lb uplift at joint 2, 3 lb uplift at joint 22 and 43 lb uplift at joint 14.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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September 29,2022

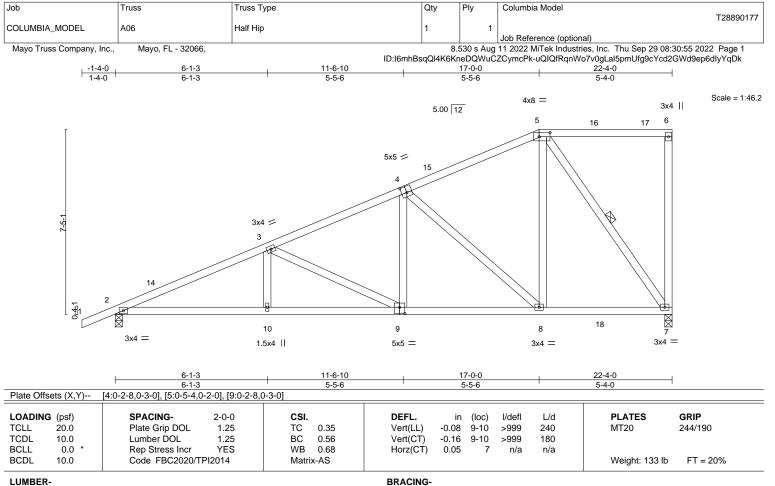


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TOP CHORD

BOT CHORD

WFBS

LUMBER-

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2 2x4 SP No 2 WFBS

REACTIONS. (size) 7=0-3-8, 2=0-3-8

Max Horz 2=222(LC 11)

Max Uplift 7=-3(LC 12), 2=-29(LC 12) Max Grav 7=1010(LC 17), 2=1054(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1967/47. 3-4=-1288/73. 4-5=-662/98

BOT CHORD 2-10=-196/1847, 9-10=-196/1847, 8-9=-156/1153, 7-8=-112/622

 $3\text{-}10\text{=}0/260,\ 3\text{-}9\text{=-}746/45,\ 4\text{-}9\text{=}0/477,\ 4\text{-}8\text{=-}730/57,\ 5\text{-}8\text{=}0/736,\ 5\text{-}7\text{=-}1011/97}$ WFBS

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 17-0-0, Exterior(2R) 17-0-0 to 21-2-15, Interior(1) 21-2-15 to 22-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 7 and 29 lb uplift at
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

1 Row at midpt

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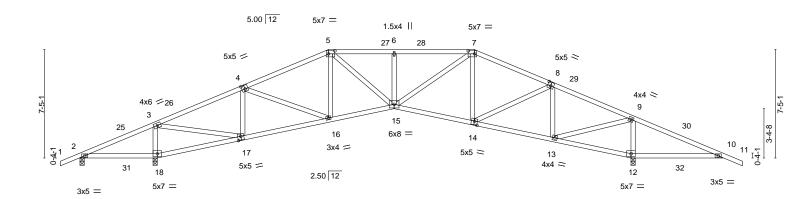
Job	Truss	Truss Type		Qty	Ply	Columbi	a Model		
									T28890178
COLUMBIA_MODEL	A06A	Hip		1		1			
						Job Refe	rence (optional)		
Mayo Truss Company, Inc.,	Mayo, FL - 32066,				8.530 s	Aug 11 2022 I	MiTek Industries, Inc.	Thu Sep 29 08:30:5	7 2022 Page 1
				ID:I6mhBsqQI	4K6KneDQ	WuCZCymcPl	k-qpQA47r22PNdFzV	ytWsEa4IQCLHIWDy	/wcylCiByYqDi
_T 1-4-0 5-3-8	11-1-12	17-0-0	21-6-0	27-0-0	1	32-4-4	37-8-8	44-0-0	45-4-0

5-6-0

4-6-0

Scale = 1:78.8

6-3-8



		3-8 3-8	11-1-12 5-10-4		7-0-0 -10-4	21-6-0 4-6-0	27-0-0 5-6-0	-	32- 5-4		37-8-8 5-4-4	38 ₇ 0-0 0-3-8	44-0-0 6-0-0	
Plate Offset	ts (X,Y)	[4:0-2-8,0	0-3-0], [5:0-5-4,0	2-8], [7:0-5-4	,0-2-8], [8:0-2	2-8,0-3-0], [14:0	0-2-8,0-3-0], [17:0	0-2-8,0)-3-0]					
	(psf) 20.0 10.0 0.0 *	Pla	PACING- ate Grip DOL imber DOL ep Stress Incr	2-0-0 1.25 1.25 YES	CSI. TC BC WB	0.66 0.52 0.49	DEFL. Vert(LL) Vert(CT) Horz(CT)	ir -0.13 -0.28 0.13	15 14-15	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATE MT20	S	GRIP 244/190
	10.0		ode FBC2020/TF		Matri		11012(01)	0.10	12	II/a	II/a	Weight	227 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied

Rigid ceiling directly applied.

LUMBER-

REACTIONS.

WFBS

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2

2x4 SP No.2

(size) 2=0-3-8, 18=0-3-8, 12=0-3-8

Max Horz 2=-132(LC 10)

Max Uplift 2=-260(LC 22), 18=-10(LC 12), 12=-43(LC 12)

Max Grav 18=2013(LC 1), 12=1865(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

5-10-4

5-10-4

TOP CHORD 2-3=0/1175, 3-4=-1206/46, 4-5=-1771/35, 5-6=-2198/0, 6-7=-2198/0, 7-8=-1620/2,

8-9=-1119/0. 9-10=-534/805

BOT CHORD 2-18=-1014/0, 17-18=-1162/0, 16-17=0/1113, 15-16=0/1628, 14-15=0/1500,

13-14=0/1002, 12-13=-783/577, 10-12=-666/540

WEBS 3-18=-1639/79, 3-17=0/2186, 4-17=-725/28, 4-16=0/566, 5-15=0/828, 6-15=-309/77, 7-15=-3/932, 8-14=-128/543, 8-13=-711/173, 9-13=-168/1771, 9-12=-1568/258

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=44ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 3-0-13, Interior(1) 3-0-13 to 17-0-0, Exterior(2R) 17-0-0 to 23-2-11, Interior(1) 23-2-11 to 27-0-0, Exterior(2R) 27-0-0 to 33-2-11, Interior(1) 33-2-11 to 45-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 260 lb uplift at joint 2, 10 lb uplift at joint 18 and 43 lb uplift at joint 12.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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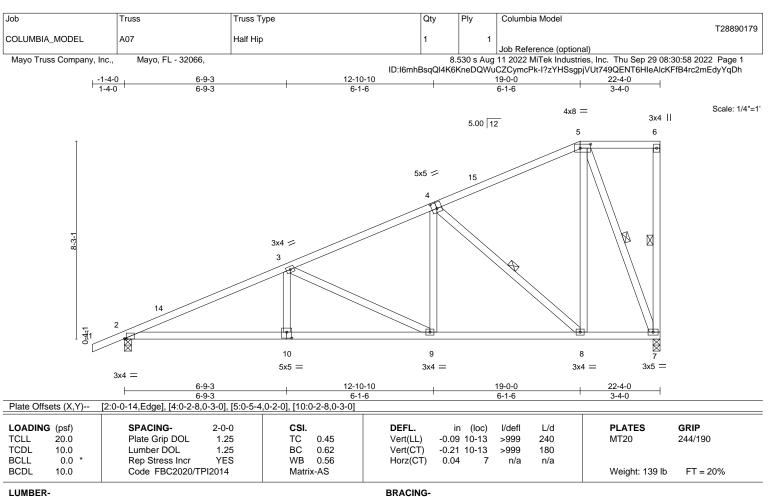
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Chesterfield, MO 63017



TOP CHORD

BOT CHORD

WFBS

LUMBER-

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2

2x4 SP No.2 WFBS

REACTIONS. (size) 7=0-3-8, 2=0-3-8 Max Horz 2=247(LC 11)

Max Uplift 7=-5(LC 12), 2=-28(LC 12) Max Grav 7=885(LC 1), 2=970(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1712/63. 3-4=-1059/62. 4-5=-389/103

BOT CHORD 2-10=-207/1544, 9-10=-207/1544, 8-9=-138/889, 7-8=-103/327 WFBS 3-9=-715/77, 4-9=0/492, 4-8=-764/46, 5-8=0/600, 5-7=-874/113

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 19-0-0, Exterior(2E) 19-0-0 to 22-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 7 and 28 lb uplift at
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

6-7, 4-8, 5-7

Rigid ceiling directly applied.

1 Row at midpt

16023 Swingley Ridge Rd. Chesterfield, MO 63017

September 29,2022



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Job	Truss	Truss Type	Qty	Ply	Columbia Model	
					T28890180	
COLUMBIA_MODEL	A07A	Hip	1	1		
					Job Reference (optional)	
Mayo Truss Company, Inc.,	Mayo, FL - 32066,		8.	530 s Aug	11 2022 MiTek Industries, Inc. Thu Sep 29 08:31:00 2022 Page 1	
		ID:I6mhB	sqQl4K6K	neDQWuC	CZCymcPk-EO5Ji8uwLKIB6REXYfPxBiNuXZHJjahMJwXsIWyYqDf	

25-0-0

3-6-0

31-4-4

31-/-/

37-8-8

6-4-4

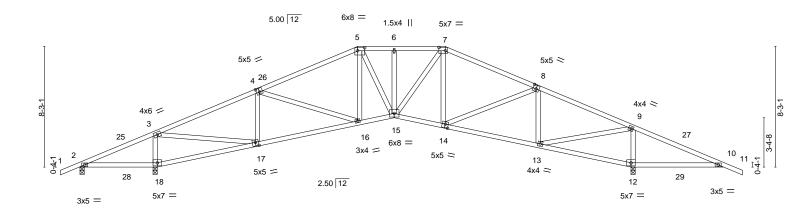
21-6-0

2-6-0

Scale = 1:78.8

44-0-0

6-3-8



	3-3-0	12-1-12		13-0-0	21-0-0	20-0-0	31-4-4		31-0-0	30TY-0	77-0-0	
	5-3-8	8 6-10-4	1	6-10-4	2-6-0	3-6-0	6-4-4		6-4-4	0-3-8	6-0-0	
Plate Offset	s (X,Y) [4:0-2-8,0-3-0], [5:0-5-12,	0-2-8], [7:0-5	-4,0-2-12], [8:0)-2-8,0-3-0], [14	4:0-2-8,0-3-0], [17:0-2-8,0-3-0]					
LOADING ((psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATE	S	GRIP
TCLL 2	20.0	Plate Grip DOL	1.25	TC	0.85	Vert(LL)	-0.14 16-17	>999	240	MT20		244/190
TCDL '	10.0	Lumber DOL	1.25	ВС	0.65	Vert(CT)	-0.32 16-17	>999	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.11 12	n/a	n/a			
BCDL '	10.0	Code FBC2020/TI	PI2014	Matri	x-AS	` ,				Weight	: 234 lb	FT = 20%
	I				I					U		

25-0-0

21-6-0

LUMBER-

WFBS

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2

5-3-8

2x4 SP No.2

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied

37-8-8

38-0-0

44-O-O

Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 18=0-3-8, 12=0-3-8

Max Horz 2=-146(LC 10)

Max Uplift 2=-164(LC 22), 18=-16(LC 12), 12=-42(LC 12)

12-1-12

12-1-12

6-10-4

19-0-0

6-10-4

10-0-0

Max Grav 18=1909(LC 1), 12=1879(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=0/919, 3-4=-1506/35, 4-5=-1837/24, 5-6=-1815/18, 6-7=-1815/18, 7-8=-1687/13,

8-9=-1330/0, 9-10=-534/788

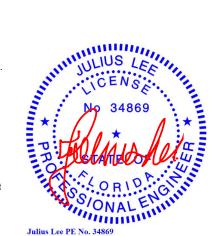
BOT CHORD 2-18=-773/0. 17-18=-914/0. 16-17=0/1377. 15-16=0/1674. 14-15=0/1548. 13-14=0/1188.

12-13=-764/577, 10-12=-647/539

WEBS 3-18=-1579/95, 3-17=0/2191, 4-17=-593/39, 4-16=0/380, 5-15=0/443, 7-15=0/568,

 $8\text{-}14\text{=-}120/388,\ 8\text{-}13\text{=-}623/179,\ 9\text{-}13\text{=-}183/1911,\ 9\text{-}12\text{=-}1584/268}$

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=44ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 3-0-13, Interior(1) 3-0-13 to 19-0-0, Exterior(2E) 19-0-0 to 25-0-0, Exterior(2R) 25-0-0 to 31-3-3, Interior(1) 31-3-3 to 45-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 164 lb uplift at joint 2, 16 lb uplift at joint 18 and 42 lb uplift at joint 12.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

September 29,2022

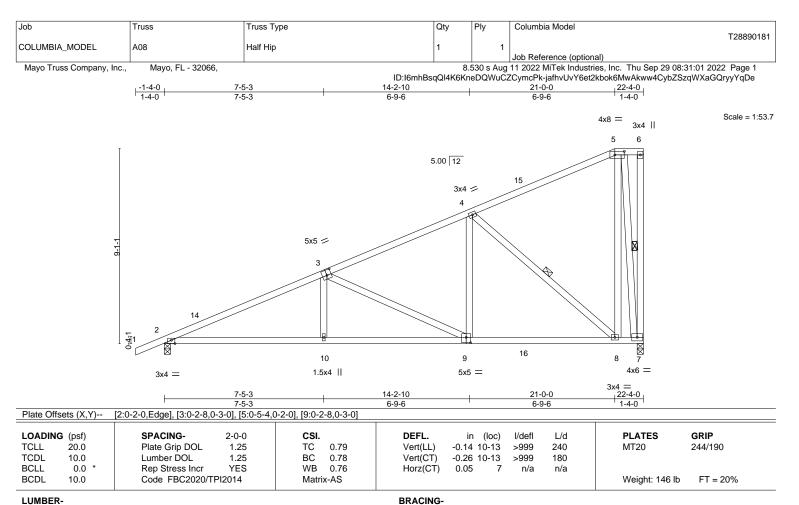


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

Design Valid to its 9 this with Min New Commercials. This design is based only upon parameters shown, and is 10 at an individual obtaining Component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





TOP CHORD

BOT CHORD

WFBS

LUMBER-

REACTIONS.

WFBS

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2

2x4 SP No 2

(size) 7=0-3-8, 2=0-3-8 Max Horz 2=272(LC 11)

Max Uplift 7=-6(LC 12), 2=-26(LC 12) Max Grav 7=1028(LC 17), 2=1057(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1802/22. 3-4=-1021/86. 4-5=-298/107 **BOT CHORD** 2-10=-157/1684 9-10=-159/1675 8-9=-149/949

WFBS 3-10=0/337, 3-9=-792/12, 4-9=0/561, 4-8=-1030/91, 5-8=-63/968, 5-7=-1174/75

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 21-0-0, Exterior(2E) 21-0-0 to 22-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 7 and 26 lb uplift at
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

6-7, 4-8, 5-7

Rigid ceiling directly applied.

1 Row at midpt

16023 Swingley Ridge Rd. Chesterfield, MO 63017

September 29,2022



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

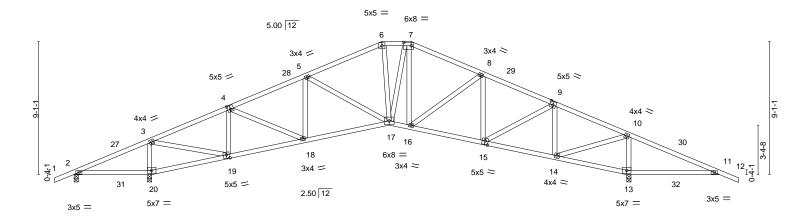
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Columbia Model	
					T28890182	
COLUMBIA_MODEL	A08A	Hip	1	1		
					Job Reference (optional)	
Mayo Truss Company, Inc.,	Mayo, FL - 32066,		8.5	530 s Aug	11 2022 MiTek Industries, Inc. Thu Sep 29 08:31:03 2022 Page 1	_
	•	ID-IC			770 DI. 6 DIXA IE7 CD I OT I 7 O-IV V-D-	

ID:I6mhBsqQI4K6KneDQWuCZCymcPk-fznRKAwpdF7mzuy6DnyepL?TnmLZwxvp?uIXvryYqDc 10-6-5 21-0-0 23-0-0 27-10-13 32-9-11 37-8-8 44-0-0 4-10-13 6-3-8 5-2-13 2-0-0 4-10-13 4-10-13

Scale = 1:78.6



	1 3-3	10-0-3	10-9-	J	21-0-0	23-0-0 21-	10-13	32-3-11	31-0-0	3074-0	44-0-0
	5-3	5-2-13	5-2-1	3	5-8-13	1-6-0 4-1	0-13	4-10-13	4-10-13	0-3 ¹ -8	6-0-0
Plate Off	sets (X,Y)	[4:0-2-8,0-3-0], [7:0-6-4,0)-2-12], [9:0-2-8	3,0-3-0], [15	5:0-2-8,0-3-0],	[19:0-2-8,0-3-0]					
LOADIN	G (psf)	SPACING-	2-0-0	CS	l.	DEFL.	in (loc) I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	-0.10	17 >999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	ВС	0.49	Vert(CT)	-0.22 17	'-18 >999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.11	13 n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Mat	trix-AS	' '				Weight: 24	43 lb FT = 20%

23-0-0

21-6-0

LUMBER-

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2 2x4 SP No.2 WFBS

5-3-8

BRACING-

TOP CHORD **BOT CHORD**

27-10-13

Structural wood sheathing directly applied.

37-8-8

38-0-0

44-O-O

Rigid ceiling directly applied.

32-0-11

REACTIONS. (size) 2=0-3-8, 20=0-3-8, 13=0-3-8

Max Horz 2=-160(LC 10)

Max Uplift 2=-209(LC 17), 20=-11(LC 12), 13=-42(LC 12)

10-6-5

Max Grav 20=1971(LC 1), 13=1870(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=0/1099, 3-4=-1117/41, 4-5=-1770/23, 5-6=-1682/11, 6-7=-1527/20, 7-8=-1622/9,

8-9=-1588/0, 9-10=-1030/0, 10-11=-534/811 2-20=-947/0, 19-20=-1091/0, 18-19=0/1040, 17-18=0/1647, 16-17=0/1467, 15-16=0/1488,

14-15=0/923, 13-14=-790/576, 11-13=-673/540 WEBS

3-20=-1616/61, 3-19=0/2058, 4-19=-777/11, 4-18=0/652, 5-18=-258/37, 6-17=0/424, $7\text{-}17\text{=-}20/400,\ 8\text{-}15\text{=-}341/129,\ 9\text{-}15\text{=-}124/623,\ 9\text{-}14\text{=-}763/164,\ 10\text{-}14\text{=-}147/1717,}$

15-0-3

10-13=-1572/245

NOTES-

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=44ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 3-0-13, Interior(1) 3-0-13 to 21-0-0, Exterior(2E) 21-0-0 to 23-0-0, Exterior(2R) 23-0-0 to 29-2-11, Interior(1) 29-2-11 to 45-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 209 lb uplift at joint 2, 11 lb uplift at joint 20 and 42 lb uplift at joint 13.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

September 29,2022

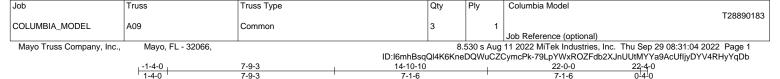


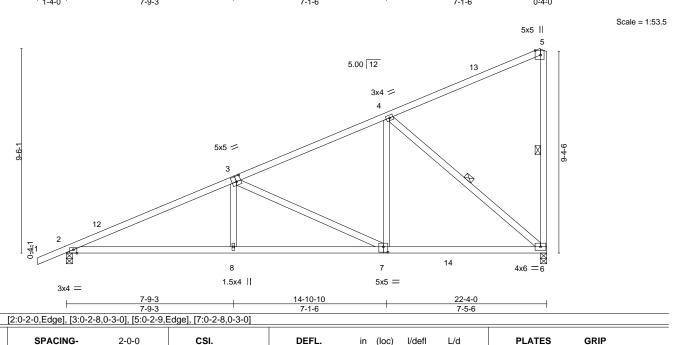
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Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

WFBS

(loc)

6-7

6-7

6

1 Row at midpt

>999

>714

n/a

Rigid ceiling directly applied.

240

180

n/a

MT20

Structural wood sheathing directly applied, except end verticals.

5-6. 4-6

Weight: 123 lb

244/190

FT = 20%

-0.21

-0.37

0.05

LUMBER-

Plate Offsets (X,Y)--

LOADING (psf)

TCLL

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No 2 2x4 SP No 2 WFBS

20.0

10.0

0.0

10.0

REACTIONS. (size) 2=0-3-8, 6=0-3-8 Max Horz 2=287(LC 11)

Max Uplift 2=-25(LC 12), 6=-7(LC 12) Max Grav 2=1056(LC 17), 6=1039(LC 17)

Plate Grip DOL

Rep Stress Incr

Code FBC2020/TPI2014

Lumber DOL

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1768/75 3-4=-967/114

2-8=-222/1654, 7-8=-224/1645, 6-7=-183/884 **BOT CHORD** 3-8=0/354, 3-7=-830/50, 4-7=0/595, 4-6=-1106/149 WFBS

NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 22-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

TC

вс

WB

Matrix-AS

0.87

0.83

0.88

- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1.25

1.25

YES

- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 2 and 7 lb uplift at joint 6.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Job		Truss	Truss Type		Qty	Ply	Columbia Mo	odel			
										T28890184	4
COLUMBIA_MC	DEL	A10	Roof Special		5	1					
							Job Reference	e (optional)			
Mayo Truss Co	ompany, Inc.,	Mayo, FL - 32066,	•		8.8	530 s Aug	11 2022 MiTel	Industries, Inc. TI	hu Sep 29 08:31:06 20	022 Page 1	
•		•		ID:I	6mhBsqQl4K6KneD0	QWuCZCyı	mcPk-3XSazB	yhwAWLqMhhuvW	LRzd_hzLm7IUFhs_E	3W9yYqDZ	
_T 1-4-0	5-3-8	10-10-5	16-5-3	22-0-0	27-6-13	, ;	33-1-11	37-8-8	44-0-0	45-4-0	
1.4.0	5.2.9	5.6.13	5.6.13	5.6.13	5.6.12		E C 12	1 6 12	6.3.0	1.4.0	

Scale = 1:76.0

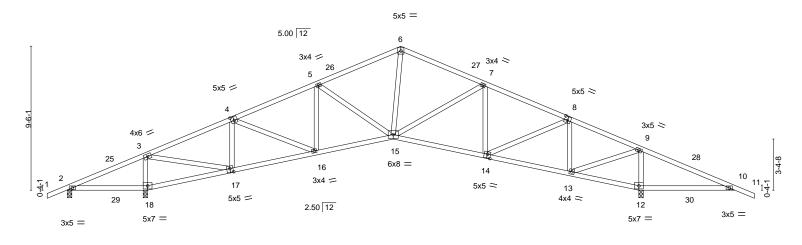


Plate Of	fsets (X,Y)	[4:0-2-8,0-3-0], [8:0-2-8,0)-3-0], [14:0-2-	8,0-3-0], [17:0	0-2-8,0-3-0]						
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	-0.11 14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	ВС	0.59	Vert(CT)	-0.27 14-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.11 12	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-AS	` ′				Weight: 2	30 lb FT = 20%

LUMBER-

WFBS

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2 2x4 SP No.2

5-3-8

21-6-0

5-0-13

5-6-13

TOP CHORD Structural wood sheathing directly applied. Rigid ceiling directly applied.

5-6-13

37-8-8

4-6-13

6-0-0

BOT CHORD

BRACING-

27-6-13

6-0-13

REACTIONS.

2=0-3-8, 18=0-3-8, 12=0-3-8 (size)

10-10-5

5-6-13

Max Horz 2=-167(LC 10)

Max Uplift 2=-204(LC 17), 18=-12(LC 12), 12=-42(LC 12)

Max Grav 18=1963(LC 1), 12=1872(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=0/1074, 3-4=-1204/44, 4-5=-1797/30, 5-6=-1674/22, 6-7=-1590/20, 7-8=-1619/1,

8-9=-958/0. 9-10=-533/816

BOT CHORD 2-18=-923/0, 17-18=-1067/0, 16-17=0/1115, 15-16=0/1670, 14-15=0/1514, 13-14=0/861,

12-13=-794/576, 10-12=-679/540

WEBS 3-18=-1611/68, 3-17=0/2100, 4-17=-736/19, 4-16=0/592, 5-15=-272/121, 6-15=0/904, $7\text{-}14\text{=-}322/141,\ 8\text{-}14\text{=-}139/690,\ 8\text{-}13\text{=-}786/170,\ 9\text{-}13\text{=-}142/1676,\ 9\text{-}12\text{=-}1577/243}$

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=44ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 3-0-13, Interior(1) 3-0-13 to 22-0-0, Exterior(2R) 22-0-0 to 26-4-13, Interior(1) 26-4-13 to 45-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 204 lb uplift at joint 2, 12 lb uplift at joint 18 and 42 lb uplift at joint 12.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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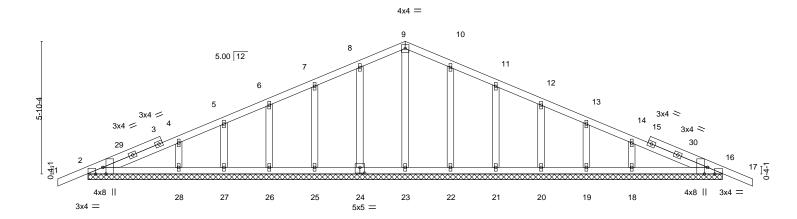
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent bucking of individual truss web and/or chard members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Columbia Model	
					T288	390185
COLUMBIA MODEL	B01GE	Common Supported Gable	1	1		
_					Job Reference (optional)	
Mayo Truss Company, Inc.,	Mayo, FL - 32066,		8.	530 s Aug	11 2022 MiTek Industries, Inc. Thu Sep 29 08:31:08 2022 Pag	e 1
	•	ID:I6n	hBsqQl4K6Kr	eDQWuC2	CymcPk-?waKNt_xSnm33gr40KYpWOiR0n9nbIVY8ATIa2yYqI	ΣX
-1-4-0	•	4-0-0	•		28-0-0	4-0
1-4-0		4-0-0			14-0-0 1-4	-0

Scale = 1:50.9



	1					20-0-0						
						28-0-0						
Plate Offse	ets (X,Y)	[2:0-3-8,Edge], [2:0-3-13,	Edge], [16:0-3	3-8,Edge], [16	:0-3-13,Edg	je], [24:0-2-8,0-3-0]						
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.11	Vert(LL)	-0.00	16	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	ВС	0.10	Vert(CT)	0.00	16	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	16	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-S	'					Weight: 149 lb	FT = 20%
						1					3	

28-0-0

LUMBER-TOP CHORD

2x4 SP No 2 2x4 SP No 2

BOT CHORD 2x4 SP No.2 OTHERS

BRACING-

TOP CHORD **BOT CHORD**

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 28-0-0.

Max Horz 2=-90(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 24, 25, 26, 27, 22, 21, 20, 19

Max Grav All reactions 250 lb or less at joint(s) 2, 16, 23, 24, 25, 26, 27, 22, 21, 20, 19 except 28=269(LC 1), 18=269(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) -1-4-0 to 1-8-0, Exterior(2N) 1-8-0 to 14-0-0, Corner(3R) 14-0-0 to 17-0-0, Exterior(2N) 17-0-0 to 29-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 1.5x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16, 24, 25, 26, 27, 22, 21, 20, 19.



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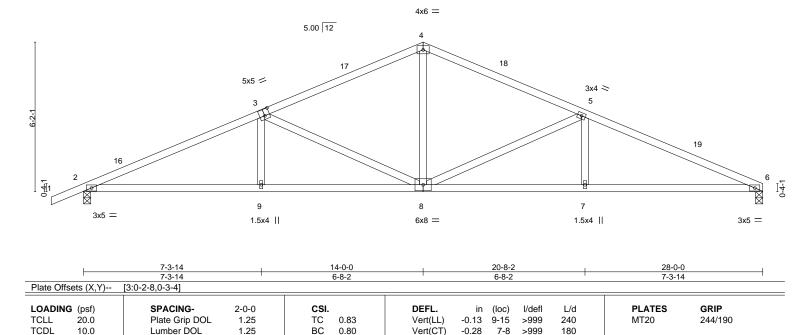
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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Job	Truss	Truss Type	Qty	Ply	Columbia Model
					T28890186
COLUMBIA_MODEL	B02	Common	8	1	
					Job Reference (optional)
Mayo Truss Company, Inc.,	Mayo, FL - 32066,		8.	530 s Aug	11 2022 MiTek Industries, Inc. Thu Sep 29 08:31:09 2022 Page 1
		ID:I6mhBsq	QI4K6Kne[QWuCZC	CymcPk-U68ibD?ZD5uwhpQGa2323cFQQBJ9KalhNqCr7UyYqDW
-1-4-0	7-3-14	14-0-0		20-8-2	28-0-0
1-4-0	7-3-14	6-8-2		6-8-2	7-3-14

Scale = 1:47.5



Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.09

6

n/a

Rigid ceiling directly applied.

n/a

Structural wood sheathing directly applied.

LUMBER-

REACTIONS.

BCLL

BCDL

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No 2 2x4 SP No.2 WFBS

0.0

10.0

(size) 6=0-3-8, 2=0-3-8 Max Horz 2=94(LC 11) Max Uplift 2=-33(LC 12)

Max Grav 6=1118(LC 1), 2=1202(LC 1)

Rep Stress Incr

Code FBC2020/TPI2014

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2238/82, 3-4=-1527/133, 4-5=-1558/142, 5-6=-2301/115 **BOT CHORD** 2-9=-24/1989, 8-9=-27/1983, 7-8=-46/2080, 6-7=-46/2080 WFBS 4-8=0/721, 5-8=-817/62, 5-7=0/326, 3-8=-697/33, 3-9=0/332

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 14-0-0, Exterior(2R) 14-0-0 to 17-0-0, Interior(1) 17-0-0 to 28-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB

Matrix-AS

0.76

- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

YES

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Weight: 127 lb

FT = 20%

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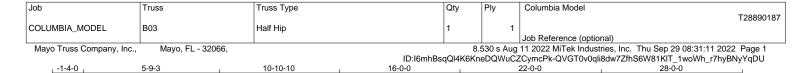
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

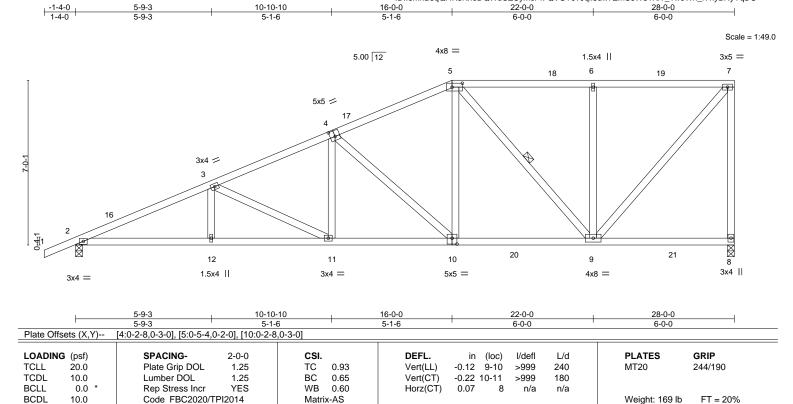
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Chesterfield, MO 63017





BRACING-

TOP CHORD

BOT CHORD

WFBS

LUMBER-

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2

2x4 SP No 2 WFBS

REACTIONS. (size) 8=0-3-8, 2=0-3-8 Max Horz 2=209(LC 11)

Max Uplift 8=-2(LC 12), 2=-30(LC 12) Max Grav 8=1277(LC 17), 2=1320(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2647/58, 3-4=-2042/74, 4-5=-1429/110, 5-6=-907/106, 6-7=-907/106,

7-8=-1161/92

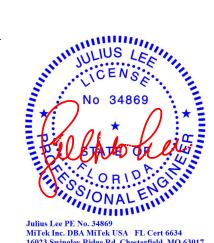
2-12=-218/2475, 11-12=-218/2475, 10-11=-172/1866, 9-10=-146/1327 BOT CHORD

WEBS 3-11=-664/52, 4-11=0/486, 4-10=-732/36, 5-10=0/677, 5-9=-589/72, 6-9=-394/96,

7-9=-74/1374

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 16-0-0, Exterior(2R) 16-0-0 to 20-2-15, Interior(1) 20-2-15 to 27-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

1 Row at midpt

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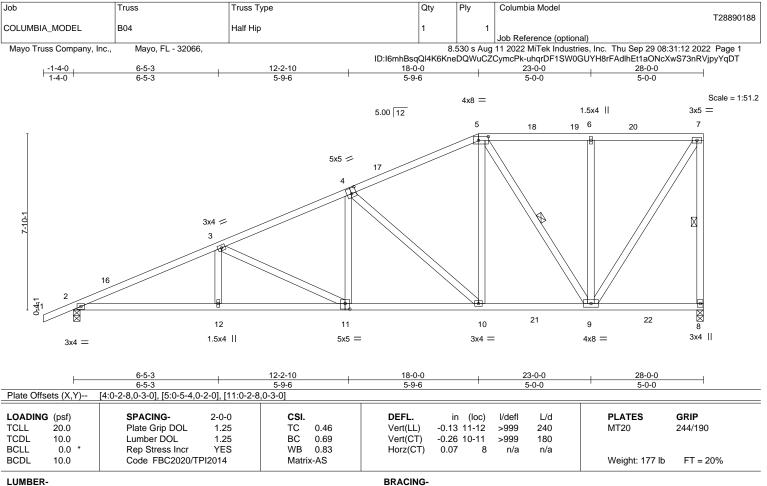


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TOP CHORD

BOT CHORD

WFBS

LUMBER-

WFBS

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2

2x4 SP No 2

REACTIONS. (size) 8=0-3-8, 2=0-3-8 Max Horz 2=235(LC 11)

Max Uplift 8=-3(LC 12), 2=-29(LC 12) Max Grav 8=1282(LC 17), 2=1317(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2606/55, 3-4=-1885/83, 4-5=-1201/108, 5-6=-698/114, 6-7=-698/114,

7-8=-1174/95

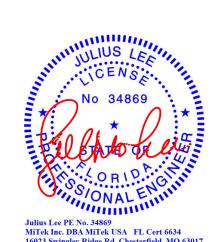
2-12=-222/2442, 11-12=-222/2442, 10-11=-181/1705, 9-10=-137/1131 BOT CHORD

3-12=0/274, 3-11=-792/48, 4-11=0/508, 4-10=-786/57, 5-10=0/770, 5-9=-751/69, **WEBS**

6-9=-313/83, 7-9=-82/1271

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 18-0-0, Exterior(2R) 18-0-0 to 22-2-15, Interior(1) 22-2-15 to 27-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

7-8.5-9

Rigid ceiling directly applied.

1 Row at midpt

16023 Swingley Ridge Rd. Chesterfield, MO 63017

September 29,2022



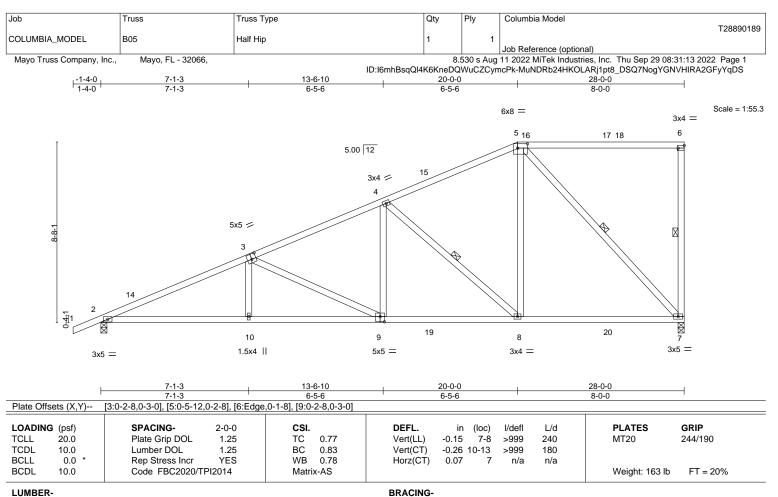
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Chesterfield, MO 63017



TOP CHORD

BOT CHORD

WFBS

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No 2

2x4 SP No 2 WFBS

> (size) 7=0-3-8, 2=0-3-8 Max Horz 2=260(LC 11)

Max Uplift 7=-4(LC 12), 2=-28(LC 12) Max Grav 7=1301(LC 17), 2=1334(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2533/32. 3-4=-1787/93. 4-5=-1039/115

BOT CHORD 2-10=-201/2361, 9-10=-203/2353, 8-9=-193/1663, 7-8=-129/961

 $3-10=0/316,\ 3-9=-752/13,\ 4-9=0/522,\ 4-8=-948/83,\ 5-8=0/976,\ 5-7=-1341/99$ WFBS

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 20-0-0, Exterior(2R) 20-0-0 to 24-2-15, Interior(1) 24-2-15 to 27-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

6-7, 4-8, 5-7

Rigid ceiling directly applied.

1 Row at midpt

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300	Truss	Truss Type	Qty	Ply	T2889019	
COLUMBIA_MODEL	C01GE	Common Supported Gable	1	1	12009019	U
					Job Reference (optional)	
Mayo Truss Company, Inc.,	Mayo, FL - 32066,		8	.530 s Aug	11 2022 MiTek Industries, Inc. Thu Sep 29 08:31:14 2022 Page 1	
			ID:I6mhBsqQI4K6K	neDQWuCz	ZCymcPk-q4xbex3i2dWCobIEMbfEmfyTVCDH?0dQX5wcoiyYqDR	
-1-4-0		6-2-0			12-4-0	
1-4-0		6-2-0			6-2-0	

Scale = 1:22.3

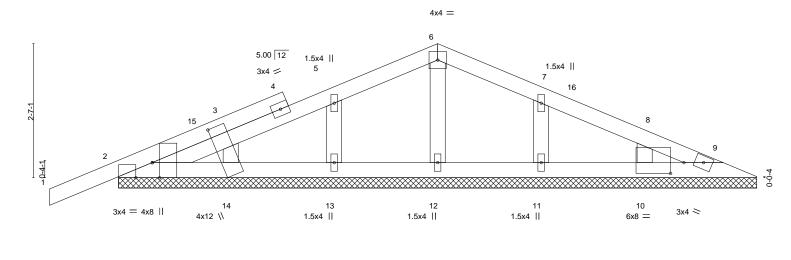


Plate Off	e Offsets (X,Y) [2:0-3-8,Edge], [2:0-3-13,Edge], [10:0-3-2,0-2-8], [14:0-2-1,1-2-13]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.11	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	ВС	0.03	Vert(CT)	-0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-S						Weight: 51 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No 2 **BOT CHORD** 2x4 SP No 2 2x4 SP No.2 OTHERS

BRACING-

TOP CHORD **BOT CHORD**

12-4-0

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-4-0.

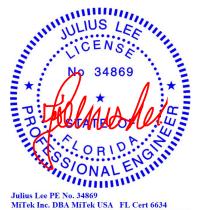
(lb) -Max Horz 2=39(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2, 13, 11, 10

Max Grav All reactions 250 lb or less at joint(s) 2, 9, 12, 13, 14, 11, 10

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) -1-4-0 to 1-8-0, Exterior(2N) 1-8-0 to 6-2-0, Corner(3R) 6-2-0 to 9-2-0, Exterior(2N) 9-2-0 to 11-7-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For study exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13, 11, 10.



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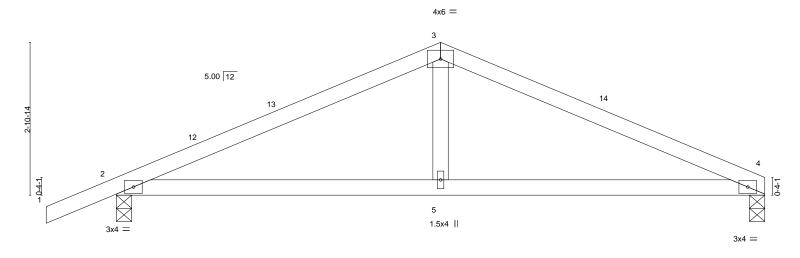
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Job	Truss	Truss Type	Qty	Ply	Columbia Model
					T28890191
COLUMBIA_MODEL	C02	Common	2	1	
					Job Reference (optional)
Mayo Truss Company, Inc.,	Mayo, FL - 32066,		8.	530 s Aug	11 2022 MiTek Industries, Inc. Thu Sep 29 08:31:16 2022 Page 1
	• • • • • • • • • • • • • • • • • • • •	ID:I6mhl	3sqQl4K6k	(neDQWu(CZCymcPk-mT3M3c4zaFmw1uScU0hir41ln?oyTwNj_PPjtayYqDP
-1-4-0		6-2-0			12-4-0
1-4-0		6-2-0	1		6-2-0

Scale = 1:21.9



		-2-0 -2-0	-	12-4-0 6-2-0					
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2020/TPI2014	CSI. TC 0.38 BC 0.40 WB 0.06 Matrix-AS	` '	in (loc) l/defl L/d -0.05 5-8 >999 240 -0.10 5-8 >999 180 0.01 4 n/a n/a	PLATES GRIP MT20 244/190 Weight: 44 lb FT = 20%				

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

2x4 SP No.2 **WEBS**

REACTIONS. (size) 4=0-3-8, 2=0-3-8

Max Horz 2=44(LC 11) Max Uplift 2=-35(LC 12)

Max Grav 4=489(LC 1), 2=578(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-780/178, 3-4=-779/187 TOP CHORD **BOT CHORD** 2-5=-106/681, 4-5=-106/681

WEBS 3-5=0/279

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 6-2-0, Exterior(2R) 6-2-0 to 9-2-0, Interior(1) 9-2-0 to 12-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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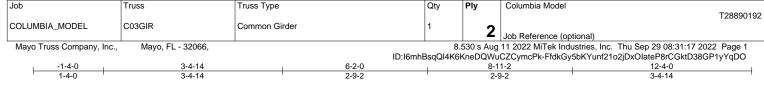
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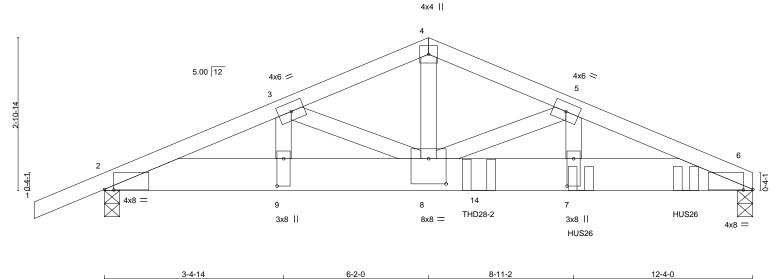


Plate Offse	ffsets (X,Y) [2:0-2-2,0-0-2], [6:0-2-2,0-0-2], [7:0-6-4,0-1-8], [8:0-4-0,0-5-12], [9:0-6-4,0-1-8]											
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.56	Vert(LL)	-0.07	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	ВС	0.43	Vert(CT)	-0.15	7-8	>995	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.50	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TI	PI2014	Matri	x-MS						Weight: 148 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

2-9-2

2-9-2

LUMBER-

TOP CHORD 2x4 SP No 2 BOT CHORD 2x8 SP 2400F 2.0E 2x4 SP No.2 WFBS

REACTIONS. (size) 6=0-3-8, 2=0-3-8

Max Horz 2=43(LC 7)

Max Grav 6=4836(LC 1), 2=2539(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

3-4-14

2-3=-5523/0, 3-4=-6163/0, 4-5=-6155/0, 5-6=-9369/0 TOP CHORD **BOT CHORD** 2-9=0/5058, 8-9=0/5058, 7-8=0/8614, 6-7=0/8614

WFBS 4-8=0/4466, 5-8=-3262/0, 5-7=0/2576, 3-8=0/799, 3-9=-602/0

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-9-0 oc.
 - Bottom chords connected as follows: 2x8 2 rows staggered at 0-3-0 oc.
- Webs connected as follows: 2x4 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Use MiTek THD28-2 (With 28-16d nails into Girder & 16-10d nails into Truss) or equivalent at 7-1-8 from the left end to connect truss(es) to front face of bottom chord.
- 9) Use MITek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 9-0-12 from the left end to 11-0-12 to connect truss(es) to front face of bottom chord.
- 10) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-4=-60, 4-6=-60, 2-6=-20

* PROPERTY.

3-4-14

Structural wood sheathing directly applied or 3-9-11 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

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Continued on page 2

MANING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	Columbia Model
COLUMBIA MODEL	C03GIR	Common Cirdor	_	_	T28890192
COLUMBIA_MODEL	CUSGIK	Common Girder	'	2	Job Reference (optional)

Mayo Truss Company, Inc.,

Mayo, FL - 32066,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Sep 29 08:31:18 2022 Page 2 ID:I6mhBsqQI4K6KneDQWuCZCymcPk-jrB6UI6D5s0eGCc?bQkAwV72OpU4xj_0SjupxTyYqDN

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 7=-1493(F) 11=-1493(F) 14=-3337(F)



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Job Truss Truss Type Qty Ply Columbia Model T28890193 COLUMBIA_MODEL CJ01 2 Diagonal Hip Girder Job Reference (optional) Mayo, FL - 32066, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Sep 29 08:31:19 2022 Page 1 Mayo Truss Company, Inc., ID:I6mhBsqQI4K6KneDQWuCZCymcPk-B2IUhe7rsA8VuMAB98FPTjfEkDmsgEJ9gNdNTvyYqDM -1-10-10 9-10-13 1-10-10 Scale = 1:22.5 NAILED NAILED 3.54 12 13 3x4 = NAILED NAILED 12 2-10-12 NAILED NAILED 11 0 - 3 - 1314 15 16 6 7 NAII FD NAII FD NAII FD 2x4 > 1.5x4 || 5 2x4 = NAII FD NAII FD NAII FD 5-3-5 8-10-13 9-10-13 3-7-8

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.2 WFBS

20.0

0.0

10.0

BRACING-

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

in (loc)

6-7

6-7

5

-0.05

-0.11

0.01

I/defl

>999

>999

n/a

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

PLATES

Weight: 41 lb

MT20

GRIP

244/190

FT = 20%

Rigid ceiling directly applied or 10-0-0 oc bracing.

I/d

240

180

n/a

REACTIONS. (size) 4=Mechanical, 2=0-4-15, 5=Mechanical

SPACING-

Plate Grip DOL

Rep Stress Incr

Code FBC2020/TPI2014

Lumber DOL

Max Horz 2=90(LC 8)

Max Uplift 4=-30(LC 8), 2=-68(LC 8)

Max Grav 4=143(LC 1), 2=417(LC 1), 5=326(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-850/0 **BOT CHORD**

2-7=-15/787. 6-7=-15/787 WFBS 3-7=0/306. 3-6=-846/16

NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

CSL

TC

вс

WB

Matrix-MS

0.46

0.65

0.24

- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

2-0-0

1.25

1.25

NO

- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-4=-60, 5-8=-20

Concentrated Loads (lb)

Vert: 11=117(F=58, B=58) 13=-84(F=-42, B=-42) 14=57(F=28, B=28) 15=-12(F=-6, B=-6) 16=-63(F=-32, B=-32)



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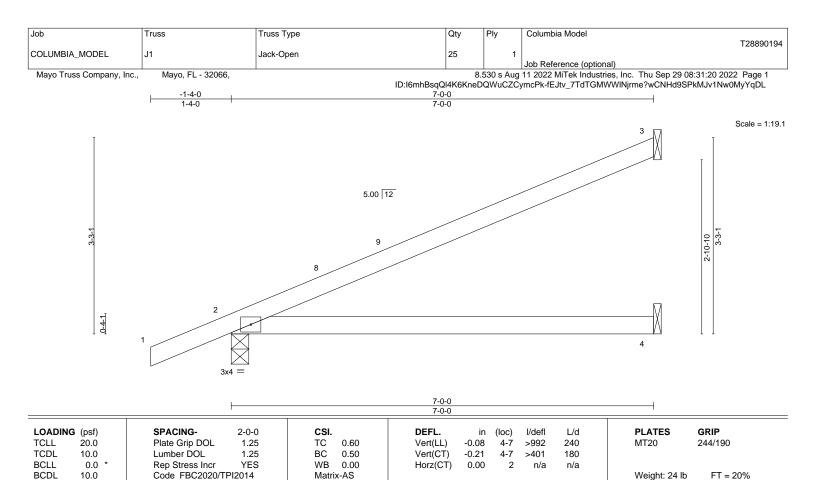


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TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied.

Rigid ceiling directly applied.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=90(LC 12)

Max Uplift 3=-39(LC 12), 2=-22(LC 12)

Max Grav 3=186(LC 1), 2=365(LC 1), 4=124(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 6-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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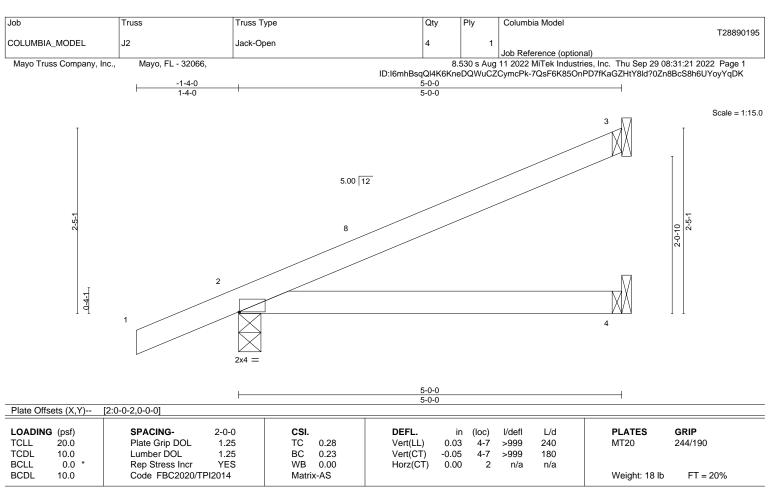


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TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 BRACING-

Structural wood sheathing directly applied. TOP CHORD **BOT CHORD** Rigid ceiling directly applied.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=70(LC 12)

Max Uplift 3=-25(LC 12), 2=-28(LC 12)

Max Grav 3=127(LC 1), 2=288(LC 1), 4=88(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 4-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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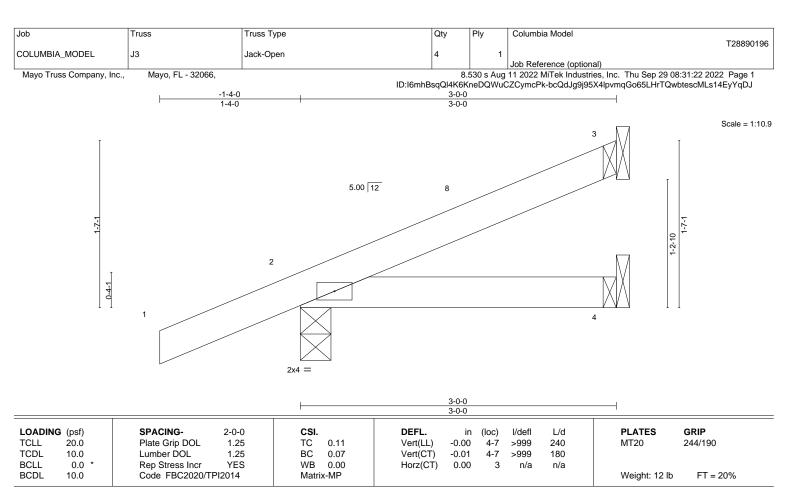


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TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=50(LC 12)

Max Uplift 3=-11(LC 12), 2=-36(LC 12)

Max Grav 3=67(LC 1), 2=216(LC 1), 4=50(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

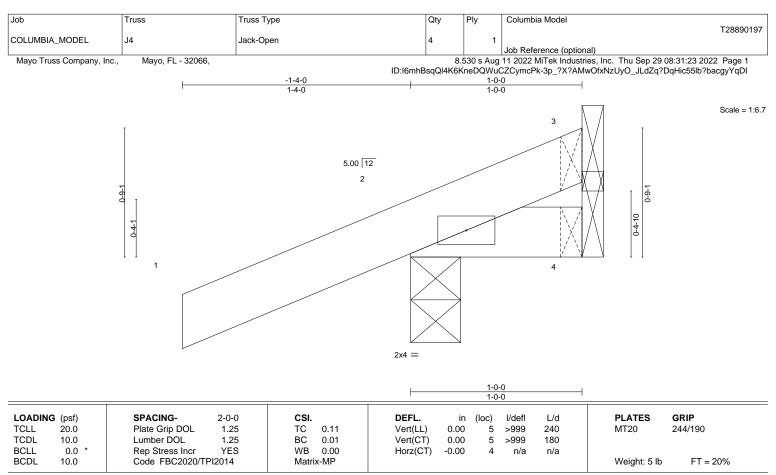
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 2-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

September 29,2022





TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=30(LC 12)

Max Uplift 2=-58(LC 12), 4=-14(LC 1)

Max Grav 3=8(LC 12), 2=174(LC 1), 4=17(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



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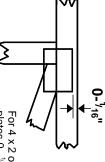


Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

4 × 4

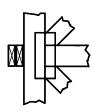
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

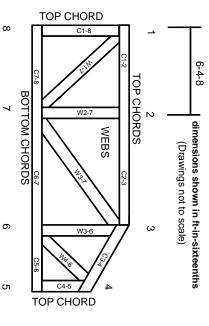
Min size shown is for crushing only

Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber

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- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21.The design does not take into account any dynamic or other loads other than those expressly stated.